



buffer OR queue OR fifo "empty indicator"

- 2001

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AJ Castellano - US Patent 5,555,524, 1996 - Google Patents

... In many cases, a **FIFO** memory serves 15 as a **buffer** between two portions of an electronic circuit ... 1, the **FIFO** 10 includes an **empty indicator** circuit 30 ...Cited by 35 - [Related Articles](#) - [Web Search](#)Cache memory command buffer circuit - group of 2 »

CP Ryan - US Patent 4,354,232, 1982 - Google Patents

... counter 214 and counter 215, and applies signals to write **buffer** storage memory ... of status signals utilized are as follows: (1) a full/**empty indicator** which is ...Cited by 52 - [Related Articles](#) - [Web Search](#)Asynchronous communications element - group of 3 »

MS Michael, PA Kanhere, RP Burnley, F Iacobelli, ... - US Patent 4,823,312, 1989 - Google Patents

... A receiver time delay interrupt indicates to the CPU that there are data characters in the receiver **FIFO** which have not reached the ... **RECEIVER BUFFER REGISTER** 38 ...Cited by 51 - [Related Articles](#) - [Web Search](#)Multi-processor, multi-bus system with bus interface comprising FIFO register stocks for receiving ... - group of 2 »

RJ Ternes, CA Huey, RW Bruner - US Patent 4,935,894, 1990 - Google Patents

... register 55 are ignored. Also, a predetermined number of lines in **FIFO** register stack 55 acts as a **buffer**. **FIFO** register stack 55 ...Cited by 67 - [Related Articles](#) - [Web Search](#)Instruction buffer associated with a cache memory unit - group of 2 »

JE Wilhite, WA Shelly, CP Ryan - US Patent 4,521,850, 1985 - Google Patents

... In the preferred embodiment, types of status signals utilized are as follows: (1) a full/**empty indicator** which is a positive ... into the **buffer** to be useless. ...Cited by 24 - [Related Articles](#) - [Web Search](#)Apparatus and method for asynchronous dual port FIFO - group of 3 »

MT Kao, MM Chiang, MF Lin, WY Lin - US Patent 6,263,410, 2001 - Google Patents

... **EMPTY INDICATOR CIRCUIT** KA ... However, an extra **buffer** in the **FIFO** may be reserved fordefining an **ALMOST FULL** signal to prevent an error from occurring. ...Cited by 14 - [Related Articles](#) - [Web Search](#)FIFO buffer controller - group of 2 »

YA Geadah, MC Lefebvre - US Patent 4,873,667, 1989 - Google Patents

... [54] **FIFO BUFFER CONTROLLER** [75] Inventors: Youssef A. Geadah, Nepean; Martin C. Lefebvre, Ottawa, both of Canada [73] Assignee: Northern Telecom Limited ...Cited by 16 - [Related Articles](#) - [Web Search](#)

Intelligent stand-alone printfile **buffer** with paging control - group of 2 »

IY Houg - US Patent 4,630,198, 1986 - Google Patents

... [il] Patent Number: [45] Date of Patent: [54] INTELLIGENT STAND-ALONE PRINTFILE **BUFFER WITH PAGING** ... 'f the **buffer** i\* capable of counting lines based upon ...[Cited by 28](#) - [Related Articles](#) - [Web Search](#)Message **FIFO buffer** controller - group of 2 »

MC Lefebvre, CA Ciancibello, YA Geadah - US Patent 4,873,666, 1989 - Google Patents

... [54] [75] MESSAGE **FIFO BUFFER** CONTROLLER Inventors: Martin C. Lefebvre, Ottawa; Carmine A. Ciancibello; Youssef A. Geadah, both of Nepean, all of Canada [73 ...[Cited by 27](#) - [Related Articles](#) - [Web Search](#)Power-conservation system for computer peripherals - group of 3 »

DJ Schanin, RR Billig - US Patent 5,477,476, 1995 - Google Patents

... **Buffer** 116 sets the "**buffer empty**" indicator negative; accordingly, controller 106 commands power switch 102 to turn on printer 108. ...[Cited by 21](#) - [Related Articles](#) - [Web Search](#)Data compression system with expansion protection - group of 3 »

DJ Van Maren, JJ Kato - US Patent 4,870,415, 1989 - Google Patents

... data **buffer** is first to fill, the contents of the raw data **buffer** are to ... When no data is contained in a **FIFO** 13, 15, the respective **empty indicator** 141, 139 ...[Cited by 18](#) - [Related Articles](#) - [Web Search](#)... /write pointers independently selectable and simultaneously responsive to respective read/write **FIFO** ... - group of 3 »

DA Sherlock - US Patent 6,269,413, 2001 - Google Patents

... Shape Control with Baker 710/37 **Queue** Threshold Congestion ... of multiple logical **FIFOs** in **buffer** system 100 ... corresponds to the particular logical **FIFO** just read ...[Cited by 13](#) - [Related Articles](#) - [Web Search](#)Resynchronization of asynchronous transfer mode (ATM) switch fabric - group of 2 »

SS Merchant, MA Pashan, H Ueda, H Uematsu - US Patent 5,408,463, 1995 - Google Patents

... corresponding queues, in the 60 114-N. Such **buffer** memory and ... (Q)-empty comparator105 and **queue** (Q)-empty indica ... Q-empty comparator 107 and Q-empty indicator 108 ...[Cited by 13](#) - [Related Articles](#) - [Web Search](#)Buffered asynchronous communications element with receive/transmit control and status reporting - group of 4 »

MS Michael, PA Kanhere, RP Burnley, F Iacobelli, ... - US Patent 5,241,660, 1993 - Google Patents

... communications element includes a receiver shift register which receives serial data trans -fers from a communication station, a receiver **FIFO** which receives ...[Cited by 10](#) - [Related Articles](#) - [Web Search](#)Multi-processor data processing system peripheral equipment access units - group of 2 »

GJ Wisdom, PV Creteau, JL Williams - US Patent 4,041,460, 1977 - Google Patents

... register's output fill/**empty indicator** wheresuch indica- The **OUTPUT ACCEPTED** signal notifies the **queue** This signal indicates the condition of the selected ...[Cited by 7](#) - [Related Articles](#) - [Web Search](#)

Method and apparatus for synchronization between real-time sampled audio applications operating full ... - group of 3 »

DF Strawn - US Patent 5,517,521, 1996 - Google Patents

... Areceive **buffer**, or **FIFO**, in the answer node is equipped 65 to generate ... indicator and slows to F ^when the receive **FIFO** trips the Almost **Empty indicator**. ...

Cited by 9 - [Related Articles](#) - [Web Search](#)

Segmenting image data into blocks and deleting some prior to compression - group of 2 »

GL Eldridge, F Blurfrushan, T Henning, SA Phong, ... - US Patent 6,272,252, 2001 - Google Patents

... The almost **empty indicator** must indicate when there is just one scanline in the **FIFO**. ... In all cases it is temporarily stored in a 16 line **FIFO buffer** 72 before ...

Cited by 4 - [Related Articles](#) - [Web Search](#)

Highway transfer: a new packet forwarding technique for real-time applications

T Kubo, K Yoguchi - INFOCOM'90. Ninth Annual Joint Conference of the IEEE ..., 1990 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

... multiple input links contend for the link and join a **queue** in the **buffer**; resulting in a ... long and is divided into two parts; a full/**empty indicator** bit, FE ...

Cited by 3 - [Related Articles](#) - [Web Search](#)

Digital multiplexer for PCM voice channels having a cross-connect capability - group of 3 »

HP Segal, C Dewilde - US Patent 4,685,101, 1987 - Google Patents

... (FOR DS0 EXTRACTION) S/P REGISTER Ij **BUFFER STORE II BUFFER STORE I** ; TRANSMISSION

ADDRESS BUS **BUFFER EMPTY P/S REGISTER BUFFER STORE I BUFFER STORE** ...

Cited by 28 - [Related Articles](#) - [Web Search](#)

Digital carrier channel bus interface module for a multiplexer having a cross-connect bus system - group of 3 »

HP Segal, CA DeWilde - US Patent 4,697,262, 1987 - Google Patents

... 8B TRANSMISSION ADDRESS BUS RECEIVE ADDRESS BUS **BUFFER EMPTY 16** - TRANSMISSION DATA

BUS 16 ... Page 10. LINE INTERFACE SYNCHRONIZER S/P REGISTER n **BUFFER STORE 1** ...

Cited by 18 - [Related Articles](#) - [Web Search](#)

High-speed modular switching apparatus for circuit and packet switched traffic - group of 2 »

H Ahmadi, JG Beha, WE Denzel, AP Engbersen, RP ... - US Patent 5,008,878, 1991 - Google Patents

... S 0A GE **FIFO STORAGE F A** , \*7- / LA I —» \* 1TDM 1\_J BUS ... LINK \* | 1R FROM rrr\*» . r\*i, r\*

T- OUTPUT DCPACKCT - | (19-i) RPACKET **FIFO** | STORAGE (58 ADDR/CTL \* ...

Cited by 38 - [Related Articles](#) - [Web Search](#)

System and technique for synchronizing data to instructions in a real time computing application - group of 3 »

PG Rosen - US Patent 5,794,002, 1998 - Google Patents

... systems is to **queue** input data to the instruction ... the invention is implemented with a **FIFO** memory with an ... or the condition of the data **buffer** without departing ...

Cited by 1 - [Related Articles](#) - [Web Search](#)

High speed digital data transmission by separately clocking and recombining interleaved data ... - group of 6 »

E Garcia, GS Lucas, JA Yanes - US Patent 6,091,783, 2000 - Google Patents

... Each **buffer** includes a data output line, a qualifier output line, and an **empty indicator** line. More particularly, the **buffer 240** ...

[Cited by 2](#) - [Related Articles](#) - [Web Search](#)

FIFO architecture with built-in intelligence for use in a graphics memory system for reducing paging ... - group of 3 »

GW Reynolds - US Patent 6,150,679, 2000 - Google Patents

... the frame **buffer** memory to be device determines addresses in the first memory element for element which are eventually output from the **FIFO** memory BACKGROUND ...

[Cited by 6](#) - [Related Articles](#) - [Web Search](#)

Two cycle asynchronous FIFO queue - group of 6 »

TA Chu... - US Patent 5,550,780, 1996 - Google Patents

... 5,550,780 TWO CYCLE ASYNCHRONOUS FIFO QUEUE ... 1 shows in block diagram form aregister

stage of a two-cycle asynchronous **FIFO queue** according to the prior art. ...

[Cited by 6](#) - [Related Articles](#) - [Web Search](#)

Foreword: Introduction and Issue Overview

K Kuemmerle, B Stuck, F Tobagi - Selected Areas in Communications, IEEE Journal on, 1983 - [ieeexplore.ieee.org](#)

... the slot. When the sender receives back the busy slot, it changes the full/**empty indicator** to empty. C. **Buffer** Insertion Ring In ...

[Related Articles](#) - [Web Search](#)

An exact efficient discrete-event model for production lines with buffers

VS Kouikoglou, YA Phillis - Decision and Control, 1989., Proceedings of the 28th IEEE ..., 1989 - [ieeexplore.ieee.org](#)

... The **buffer—empty indicator** is defined as follows (i, if B. empties at time t  $BE.(t) = LU$ , otherwise and similarly we define the following event indicators: BF ...

[Web Search](#)

[CITATION] High speed digital data transmission by separately clocking and recombining interleaved data ...

GS Lucas, JA Yanes, E Garcia - US Patent 6,246,726, 2001

[Web Search](#)

Local-Area Subnetworks: A Performance Comparison

BUX WERNER - IEEE TRANSACTIONS ON COMMUNICATIONS, 1981 - [ieeexplore.ieee.org](#)

... packets is maximum if the probability that the packet joins an empty **queue** is as ...

A full/**empty indicator** within the slot header is used to signal the state of a ...

[Related Articles](#) - [Web Search](#)

One-to-many bus bridge using independently and simultaneously selectable logical FIFOS - group of 3 »

DA Sherlock - US Patent 6,304,936, 2001 - Google Patents

... and is dequeued from the second logical **FIFO** into the ... Control with Ray et al 710/52 **Queue** Threshold Congestion ... "Efficient Analysis of Shared **Buffer** ", & \_ , \_ ...

[Cited by 8](#) - [Related Articles](#) - [Web Search](#)

Design of a Network Shared Memory Based Workstation Cluster - group of 6

»

J Bonney, R Ramanujan, K Thurber - Proceedings of the 22nd Annual IEEE Conference on Local ..., 1997 - doi.ieeecomputersociety.org

... staggering or phasing of the full/empty indicator by one ... read operation until the transmit buffer is cleared ... newly updated data element from the receive FIFO. ...

[Related Articles](#) - [Web Search](#) - [BL Direct](#)

Efficient point-to-point and multi-point routing mechanism for programmable packet switching nodes ... - group of 2 »

G Lebizay, JM Munier, A Pauporte, V Spagnol - US Patent 5,602,841, 1997 - Google Patents

... First, data packets are never copied, only packet pointers are copied for each destination: Space in Buffer Memory is saved, the number of instructions is ...

[Cited by 71](#) - [Related Articles](#) - [Web Search](#)

CACHE STORE CLEARING OPERATION FOR MULTIPROCESSOR MODE

RE Lange - US Patent 3,845,474, 1974 - Google Patents

... store 10 is a "look-aside memory" or high 10 speed buffer store. ... the present embodiment

for providing a round robin counter and a full/empty indicator is shown ...

[Cited by 52](#) - [Related Articles](#) - [Web Search](#)

Locking system for hotels - group of 2 »

J Schachter - US Patent 4,157,534, 1979 - Google Patents

... 5, 1979 Sheet 4 of 8 4,157,534 KEY CODE READER FIG. 6 FIG. 10 VALIDATOR CIRCUITRY

FIFO MEMORY FIFO MEMORY - 7, FRAME TPUT REGISTER 8 VPRGIE ...

[Cited by 22](#) - [Related Articles](#) - [Web Search](#)

Parallel serial controller - group of 2 »

L Braun - US Patent 4,497,041, 1985 - Google Patents

... 72 - 79 are connected to the PAO-PA7 inputs of FIFO incorporating microprocessors ... a single pulse; (i) said memory having a not empty indicator output connected ...

[Cited by 8](#) - [Related Articles](#) - [Web Search](#)

Method of interfacing peripheral devices with a central processor - group of 2

»

L Braun - US Patent 4,592,012, 1986 - Google Patents

... said memory output; providing said memory receiving means with a not-empty indicator in combination ... 72-79 are connected to the PAO-PA7 inputs of FIFO memory 81 ...

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Method and apparatus for transporting messages between processors in a multiple processor system - group of 4 »

WT Futral, E Garbus, B Davis - US Patent 6,134,619, 2000 - Google Patents

... Stacy Whitmore Attorney, Agent, or Firm—Blakely, Sokoloff, Taylor & Zafman LLP [57] ABSTRACT A message unit that provides a hardware queue interface between a ...

[Cited by 27](#) - [Related Articles](#) - [Web Search](#)

Method of and apparatus for detecting toner empty - group of 2 »

Y Yamaguchi, T Tooda - US Patent 5,512,980, 1996 - Google Patents

Page 1. United States Patent Yamaguchi et al. US005512980A [il] Patent Number:

[45] Date of Patent: [54] METHOD OF AND APPARATUS FOR DETECTING TONER EMPTY ...

[Cited by 3](#) - [Related Articles](#) - [Web Search](#)

Programmable high performance data communication adapter for high speed packet transmission networks - group of 3 »

C Galand, G Lebizay, D Mauduit, J Munier, A ... - US Patent 5,528,587, 1996 - Google Patents

... 18, 1996 IBM TDB, vol. 33, No. 7, pp. 351-354. Dec.A990 "Queue- ing problem avoidance by using finite resource list". Int. Conf. on ComputerDesign, 10-87, pp. ...

[Cited by 25](#) - [Related Articles](#) - [Web Search](#)

Computer system including a write protection circuit for preventing illegal write operations and a ... - group of 3 »

DA Kummer, RT Rumer - US Patent 5,325,499, 1994 - Google Patents

... 9/1991 Begun et al 395/325 5,091,850 2/1992 Culley 395/400 5,157,774 10/1992 Culley 395/425 OTHER PUBLICATIONS "LR3220 Read-Write Buffer Preliminary," LSI ...

[Cited by 53](#) - [Related Articles](#) - [Web Search](#)

[CITATION] Method and apparatus for transporting messages between processors in a multiple processor system

US Patent 5,925,099, 1999

[Web Search](#)

Image recording apparatus - group of 3 »

T Honjo, M Kitahara, Y Suzuki, N Takahata - US Patent 4,622,594, 1986 - Google Patents

Page 1. United States Patent [il] Patent Number: Honjo et al [45] Date of Patent:

[54] IMAGE RECORDING APPARATUS [75] Inventors: Takeshi ...

[Cited by 17](#) - [Related Articles](#) - [Web Search](#)

3D graphics in a single logical sreen display using multiple computer systems

US Patent 6,249,294, 2001 - freepatentsonline.com

... For example, a FIFO arrangement may ... request has the effect of clearing the colormap event **queue** in that ... The first few bytes of each **buffer** may be used as a full ...

[Cited by 7](#) - [Related Articles](#) - [Cached](#) - [Web Search](#)

MULT-PROCESSOR DATA PROCESSING SYSTEM

US Patent 3,787,818, 1974 - Google Patents

... SL Page 7. Y BUS PATENTEDJAN22 1974 3, 787, 8 1 8 SHEET 06 OF 1 3

MULTIPLEXOR **QUEUE**

SORTING CIRCUIT INTERFACE ^EQUIPMENT ^ MULTIPLE XOR .TIMING CIRCUIT Page 8. ...

[Cited by 26](#) - [Related Articles](#) - [Web Search](#)

Functional grammars - group of 2 »

VA Tuzov - Journal of Mathematical Sciences, 1983 - Springer

... <pair of boundaries > : : < boundary > : <boundary > [ ] I <empty indicator > ;

<lower bound > : : @ <m > [s] I <enqptyindicator> ; <empty ...

[Related Articles](#) - [Web Search](#)

Resource management system using next available integer from an integer pool and returning the ... - group of 3 »

GW Wilhelm Jr - US Patent 5,905,889, 1999 - Google Patents

... 1997 by GW Wilhelm, Jr. for Stationary **Queue** for Scarce ^ **buffer** ) and the f ree \_ii st variable is updated to point to the US patent application Ser. No. ...

[Cited by 5](#) - [Related Articles](#) - [Web Search](#)

Resource management system having a control structure to indicate the availability of integer from ... - group of 3 »

GW Wilhelm Jr - US Patent 6,233,630, 2001 - Google Patents

... for Stationary **Queue** for Scarce Resource Management ... 2. The permission to use a resourceis a "ticket" for a specific resource only (ie, **buffer** #1, or program #5 ...[Cited by 2](#) - [Related Articles](#) - [Web Search](#)Programmed controller - group of 3 »

D Ward, DB Steward - US Patent 4,802,116, 1989 - Google Patents

Page 1. United States Patent Ward et al. [il] Patent Number: [45] Date of Patent: [54] PROGRAMMED CONTROLLER [75] Inventors: Derek ...

[Cited by 19](#) - [Related Articles](#) - [Web Search](#)[BOOK] Sparse Distributed Memory Principles of Operation - group of 4 »

MJ Flynn, P Kanerva, N Bhadkamkar - 1989 - historical.ncstrl.org

Page 1. Sparse Distributed Memory: Principles and Operation MJ Flynn, P. Kanerva, and N. Bhadkamkar Technical Report CSL-TR-89-400 December 1989 ...

[Cited by 2](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)Graphics memory system that utilizes look-ahead paging for reducing paging overhead - group of 3 »

GW Reynolds - US Patent 6,078,336, 2000 - Google Patents

... When the RAM controller is utilizing a particular **FIFO** to access the frame **buffer** memory, the RAM controller deter - mines when there are no more transactions ...[Cited by 4](#) - [Related Articles](#) - [Web Search](#)Image forming device - group of 2 »

Y Yamaguchi, H Hanzawa, S Tanaka, N Tanaka - US Patent 5,528,344, 1996 - Google Patents

... LESS ) ? YES NEAR EMPTY (TONER **EMPTY INDICATOR** FLASHING ) TONER ... YES TONER **EMPTY**(TONER **EMPTY INDICATOR** LIGHTING, DEVICE NOT READY ) TONER ...[Cited by 10](#) - [Related Articles](#) - [Web Search](#)Graphics memory system that utilizes detached-Z buffering in conjunction with a batching ... - group of 6 »

GW Reynolds - US Patent 6,317,124, 2001 - Google Patents

... Z coordinate data is stored in the Z **buffer** storage area ... colors stored in the Write Pixel **FIFO** 81 will ... pixel colors until a write-pipe-**empty indicator** (not shown ...[Cited by 4](#) - [Related Articles](#) - [Web Search](#)ELEMENT PLACEMENT SYSTEM

H Freitag - US Patent 3,654,615, 1972 - Google Patents

Page 1. United States Patent Freitag [is] 3,654,615 [45] Apr. 4, 1972

[54] ELEMENT PLACEMENT SYSTEM [72] Inventor: Harlow Freitag ...

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